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L18: Entry 3 of 9 File: USPT Aug 6, 1996

US-PAT-NO: 5543323
DOCUMENT-IDENTIFIER: US 5543323 A

TITLE: Plasmodium merozoite rhoptries antigenic polypeptides

DATE-ISSUED: August 6, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ridley; Robert G.	Edinburgh			GB3
Scaife; John G.	Edinburgh			GB3

US-CL-CURRENT: 435/252.3; 435/252.33, 435/254.11, 435/320.1, 435/69.3, 536/23.1, 536/23.7

CLAIMS:

What is claimed is:

1. An isolated DNA sequence encoding a Plasmodium falciparum antigen associated with the rhoptry organelles of the merozoite form of the malaria parasite, wherein said antigen has a molecular weight of about 80,000 Daltons and comprises the amino acid sequence ##STR5##

2. A DNA sequence according to claim 1 comprising the nucleotide sequence ##STR6##

3. A unicellular host organism containing a recombinant vector comprising the DNA sequence of claim 2 and which host organism is capable of expressing the DNA sequence.

4. An isolated DNA sequence encoding a polypeptide, which polypeptide has at least one determinant immunologically cross-reactive with determinants on a Plasmodium falciparum antigen associated with the rhoptry organelles of the merozoite form of the malaria parasite, which antigen is about 80,000 Daltons and which polypeptide comprises the amino acid sequence ##STR7##

5. A DNA sequence according to claim 4 comprising the nucleotide sequence ##STR8##

6. A unicellular host organism containing a recombinant vector comprising the DNA sequence of claim 5 and which host organism is capable of expressing the DNA sequence.

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L18: Entry 9 of 9 File: USPT Aug 30, 1988

US-PAT-NO: 4767622
DOCUMENT-IDENTIFIER: US 4767622 A

TITLE: Method and materials for development of immunological responses protective against malarial infection

DATE-ISSUED: August 30, 1988

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ristic; Miodrag	Urbana	IL		
Chilbert; Mary L.	Urbana	IL		

US-CL-CURRENT: 424/268.1; 435/70.4, 530/350, 530/403, 530/822

CLAIMS:

What is claimed is:

1. A vaccine composition for use in developing a protective immune response in a vertebrate animal susceptible to infection by Plasmodium flaciparum parasites, said composition comprising:

(1) an immunologically effective amount of one or more water soluble proteinaceous immunogens having respective molecular weights within the range of about 35,000 and about 85,000, as determined by SDS-PAGE, produced in the course of the in vitro cultured growth and proliferation of Plasmodium falciparum parasites in a susceptible host erythrocyte cell culture and isolated from the host and parasite cell and cell fragment-free medium of such growth or host and parasite cell and cell fragment-free washes of infected host cells in such culture; and

(2) an immunologically effective amount of immunologically acceptable carrier and adjuvant materials.

2. A vaccine composition according to claim 1 comprising one or both of two water soluble proteinaceous immunogens having respective molecular weights of about 42,000 and about 54,000.

3. A vaccine according to claim 1 wherein the susceptible erythrocytes are human erythrocytes.

4. A vaccine composition according to claim 1 wherein the immunologically acceptable adjuvant material is saponin.

5. A vaccine composition according to claim 1 wherein the immunologically acceptable adjuvant material is aluminum hydroxide.

6. A method for protecting a susceptible vertebrate against infection by Plasmodium falciparum parasites comprising administering a vaccine composition comprising:

(1) an immunologically effective amount of one or more water soluble proteinaceous immunogens having respective molecular weights within the range of about 35,000 and about 85,000, as determined by SDS-PAGE, produced in the course of the in vitro cultured growth and proliferation of Plasmodium falciparum parasites in a susceptible host erythrocyte cell culture and isolated from the host and parasite cell and cell fragment-free medium of such growth or host and parasite cell and cell fragment-free washes of infected host cells in such culture; and

(2) an immunologically effective amount of immunologically acceptable carrier and adjuvant materials.